STA Search History

FILE 'HOME' ENTERED AT 09:44:28 ON 16 JUL 2003

L1 QUE (BACTERIOCIN OR LANTIBIOTIC OR NICIN) (P) (METAL OR TRANSITIONAL OR CO BALT OR CO#)

(FILE 'HOME' ENTERED AT 09:44:28 ON 16 JUL 2003)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 09:44:45 ON 16 JUL 2003

SEA (BACTERIOCIN OR LANTIBIOTIC OR NICIN) (P) (METAL OR TRANSIT

- 1* FILE ADISNEWS
 SEA (BACTERIOCIN OR LANTIBIOTIC OR NICIN) (P) (METAL OR TRANSIT
- 1* FILE ADISNEWS
- 29 FILE AGRICOLA
- 2 FILE AQUASCI
- 10 FILE BIOBUSINESS
- 4* FILE BIOCOMMERCE
- 85 FILE BIOSIS
- 17* FILE BIOTECHABS
- 17* FILE BIOTECHDS
- 63* FILE BIOTECHNO
- 64 FILE CABA
- 4 FILE CANCERLIT
- 135 FILE CAPLUS
 - 4* FILE CEABA-VTB
 - 2* FILE CIN
 - 4 FILE CROPU
 - 1 · FILE DDFB
 - 1 FILE DDFU
 - 1 FILE DRUGB
 - 1 FILE DRUGNL
 - 2 FILE DRUGU
- 56 FILE EMBASE
- 90* FILE ESBIOBASE
- 13* FILE FEDRIP
- 0* FILE FOMAD
- 0* FILE FOREGE
- 26* FILE FROSTI
- 82* FILE FSTA
- 22 FILE GENBANK
- 1 FILE HEALSAFE
- 14 FILE IFIPAT
- 6* FILE KOSMET
- 56 FILE LIFESCI
- 0* FILE MEDICONF
- 65 FILE MEDLINE
- 3* FILE NTIS
- 0* FILE NUTRACEUT
- 72* FILE PASCAL
- 0* FILE PHARMAML
- 4 FILE PHIN
- 6 FILE PROMT
- 67 FILE SCISEARCH
- 52 FILE TOXCENTER

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FILE USPATFULL
              73
                   FILE USPAT2
               3
               5
                   FILE VETU
              17
                   FILE WPIDS
                  FILE WPINDEX
              17
                QUE (BACTERIOCIN OR LANTIBIOTIC OR NICIN) (P) (METAL OR TRANSIT
L1
     FILE 'MEDLINE, CAPLUS, BIOSIS, BIOTECHNO, LIFESCI, EMBASE, SCISEARCH'
     ENTERED AT 09:50:13 ON 16 JUL 2003
            527 S L1
L2
              1 S L2 AND (NICIN OR LANTIBIOTIC ) (L) (METAL OR COBALT)
L3
              0 S L2 AND (NICIN OR LANTIBIOTIC ) (S) (METAL OR COBALT)
L4
              0 S L2 AND (NICIN OR LANTIBIOTIC ) (S) (CHELAT#####)
L5
            209 DUP REM L2 (318 DUPLICATES REMOVED)
L6
L7
             21 S L6 AND (NICIN OR LANTIBIOTIC )
             56 S L2 AND (METAL OR COBALT)
L8
             21 S L8 AND L6
L9 .
             1 S L9 AND L7
L10
             40 S (L7 OR L9) NOT L10
L11
             37 S L11 NOT PY>2002
L12
             0 S (NICIN OR LANTIBIOTIC ) (S) (METAL OR COBALT)
L13
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- L12 ANSWER 2 OF 37 MEDLINE
- TI Lantibiotics produced by lactic acid bacteria: structure, function and applications.
- SO ANTONIE VAN LEEUWENHOEK, (2002 Aug) 82 (1-4) 165-85. Ref: 120 Journal code: 0372625. ISSN: 0003-6072.
- AU Twomey Denis; Ross R P; Ryan Maire; Meaney Billy; Hill C
- L12 ANSWER 6 OF 37 MEDLINE
- TI Homing in on the role of transition metals in the HNH motif of colicin endonucleases.
- SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Sep 17) 274 (38) 27153-60. Journal code: 2985121R. ISSN: 0021-9258.
- AU Pommer A J; Kuhlmann U C; Cooper A; Hemmings A M; Moore G R; James R; Kleanthous C
- L12 ANSWER 8 OF 37 MEDLINE
- TI Biosynthesis of lantibiotic nisin. Posttranslational modification of its prepeptide occurs at a multimeric membrane-associated lanthionine synthetase complex.
- SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 May 24) 271 (21) 12294-301. Journal code: 2985121R. ISSN: 0021-9258.
- AU Siegers K; Heinzmann S; Entian K D
- L12 ANSWER 11 OF 37 MEDLINE
- TI Mode of action of the lanthionine-containing peptide antibiotics duramycin, duramycin B and C, and cinnamycin as indirect inhibitors of phospholipase A2.
- SO BIOCHEMICAL PHARMACOLOGY, (1991 Oct 24) 42 (10) 2027-35. Journal code: 0101032. ISSN: 0006-2952.
- AU Marki F; Hanni E; Fredenhagen A; van Oostrum J
- L12 ANSWER 18 OF 37 CAPLUS COPYRIGHT 2003 ACS
- TI Molecular characterization of **lantibiotic**-synthesizing enzyme EpiD reveals a function for bacterial Dfp proteins in coenzyme A biosynthesis
- SO Journal of Biological Chemistry (2000), 275(41), 31838-31846 CODEN: JBCHA3; ISSN: 0021-9258
- AU Kupke, Thomas; Uebele, Michael; Schmid, Dietmar; Jung, Gunther; Blaesse, Michael; Steinbacher, Stefan
- L12 ANSWER 19 OF 37 CAPLUS COPYRIGHT 2003 ACS
- TI Isolation and characterization of lacticin 10790, a new bacteriocin produced by Lactococcus lactis subsp. cremoris KFCC 10790
- Journal of Microbiology and Biotechnology (2000), 10(4), 539-543 CODEN: JOMBES; ISSN: 1017-7825
- AU Joo, Nam Eok; Kim, Il-Han; Yoo, Jin-Young; Lee, Yong-Eok
- L12 ANSWER 23 OF 37 CAPLUS COPYRIGHT 2003 ACS
- TI Applications of nisin: a literature survey
- Nisin Novel Lantibiotics, Proc. Int. Workshop Lantibiotics, 1st (1991), 434-9. Editor(s): Jung, Guenther; Sahl, Hans-Georg. Publisher: ESCOM, Leiden, Neth. CODEN: 57TYA9
- AU Molitor, Ernst; Sahl, Hans Georg

- L12 ANSWER 30 OF 37 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- TI Metal ion resistance of the bacteriocin producing enterococci.
- SO Asian-Australasian Journal of Animal Sciences, (1993) Vol. 6, No. 3, pp. 441-445.
 ISSN: 1011-2367.
- AU Laukova, A. (1); Kmet, V.
- L12 ANSWER 33 OF 37 LIFESCI COPYRIGHT 2003 CSA
- TI Review: Bacteriocins of Lactic Acid Bacteria
- SO Food Science and Technology International [Food Sci. Technol. Int.], (20010800) vol. 7, no. 4, pp. 281-305. ISSN: 1082-0132.
- AU Cintas, L.M.; Casaus, M.P.; Herranz, C.; Nes, I.F.; Hernandez, P.E.
- L12 ANSWER 36 OF 37 SCISEARCH COPYRIGHT 2003 THOMSON ISI
- TI MODE OF ACTION OF THE LANTHIONINE-CONTAINING PEPTIDE ANTIBIOTICS DURAMYCIN, DURAMYCIN-B AND DURAMYCIN-C, AND CINNAMYCIN AS INDIRECT INHIBITORS OF PHOSPHOLIPASE-A2
- SO BIOCHEMICAL PHARMACOLOGY, (1991) Vol. 42, No. 10, pp. 2027-2035.
- AU MARKI F (Reprint); HANNI E; FREDENHAGEN A; VANOOSTRUM J

L12 ANSWER 2 OF 37 MEDLINE

AN 2002612525 MEDLINE

DN 22256668 PubMed ID: 12369187

TI Lantibiotics produced by lactic acid bacteria: structure, function and applications.

AU Twomey Denis; Ross R P; Ryan Maire; Meaney Billy; Hill C

CS Department of Microbiology, University College Cork, Teagasc, Dairy Products Research Centre, Moorepark, Fermoy, Co. Cork, Ireland.

SO ANTONIE VAN LEEUWENHOEK, (2002 Aug) 82 (1-4) 165-85. Ref: 120 Journal code: 0372625. ISSN: 0003-6072.

CY Netherlands

DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, ACADEMIC)

LA English

FS Priority Journals

EM 200302

ED Entered STN: 20021010 Last Updated on STN: 20030214 Entered Medline: 20030212

AB Lantibiotics are a diverse group of heavily modified antimicrobial and/or signalling peptides produced by a wide range of bacteria, including a variety of lactic acid bacteria. Based on their diverse structures and mode of action, at least six separate lantibiotic subgroups can be suggested, but all subgroups are characterized by significant post-translational modifications, which include the formation of (beta-methyl)lanthionines, among other unusual These small peptides are produced, modified, exported, alterations. sensed and combated by a complex set of proteins encoded by (usually) co-ordinately regulated operons. In some instances, the production and immunity have been shown to be auto-regulated by the mature lantibiotic. Since their discovery, interest in lantibiotics has been fuelled by their obvious potential as food-grade antimicrobials to improve food safety and quality; a potential which, to date, has been realised only by the longest characterised molecule, nisin. In addition, these peptides are often mooted as alternatives to antibiotics for some biomedical applications. The purpose of this paper is to review recent developments in our understanding of lantibiotic structure, molecular genetics and applications for this unusual class of bacteriocins.

L12 ANSWER 12 OF 37 MEDLINE

AN 85174044 MEDLINE

DN 85174044 PubMed ID: 6532404

TI Physiological properties and plasmid content of Bacteroides spp.

AU Riley T V; Mee B J

SO AUSTRALIAN JOURNAL OF EXPERIMENTAL BIOLOGY AND MEDICAL SCIENCE, (1984 Dec) 62 (Pt 6) 717-26.

Journal code: 0416662. ISSN: 0004-945X.

CY Australia

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 198505

ED Entered STN: 19900320

Last Updated on STN: 19900320 Entered Medline: 19850520

AB A collection of 50 clinical isolates of Bacteroides was examined for plasmid deoxyribonucleic acid content. An attempt was then made to

correlate the presence of plasmids with a specific phenotypic property. Of the 20 Bacteroides which contained plasmids, 18 were found to harbour plasmids of less than or equal to 9.8 megadaltons. The most common plasmid had a molecular weight of 4.8 megadaltons and was found in 9 strains. Most strains had multiple plasmid bands. All strains were examined for resistance to penicillin, cefoxitin, erythromycin, tetracycline, sulphamethoxazole, clindamycin, chloramphenicol, arsenate, silver, cadmium, mercury, chromium, lead, nickel and cobalt, and for the production of beta-lactamase, heparinase, deoxyribonuclease, haemolysins and bacteriocins. Using a Chi-squared analysis, there was no statistically significant correlation between any of these phenotypic traits and the presence of plasmids, except bacteriocin production. A total of 15 out of 20 (75%) of plasmid-containing strains produced bacteriocins while only 10 out of 30 (33%) of plasmid-free strains were capable of bacteriocin production (chi 2, p less than 0.005). Attempts to transfer or cure resistance to antibiotics and heavy metals or bacteriocin production were not successful.

- L12 ANSWER 19 OF 37 CAPLUS COPYRIGHT 2003 ACS
- AN 2000:714524 CAPLUS
- DN 134:53580
- TI Isolation and characterization of lacticin 10790, a new bacteriocin produced by Lactococcus lactis subsp. cremoris KFCC 10790
- AU Joo, Nam Eok; Kim, Il-Han; Yoo, Jin-Young; Lee, Yong-Eok
- CS Department of Chemistry and Biochemistry, Pai-Chai University, Taejon, 302-735, S. Korea
- SO Journal of Microbiology and Biotechnology (2000), 10(4), 539-543 CODEN: JOMBES; ISSN: 1017-7825
- PB Korean Society for Applied Microbiology
- DT Journal
- LA English
- AB A new bacteriocin, named lacticin 10790, was purified from
 Lactococcus lactis subsp. cremoris KFCC 10790 by sequential adsorption,
 immobilized metal-affinity, cation-exchange, and C18
 reverse-phase chromatogs. The mol. mass of the bacteriocin was
 estd. to be between 3,000 and 3,500 Da. Lacticin 10790 showed a broad
 antimicrobial spectrum against many gram-pos. bacteria. The
 bacteriocin was stable to heat and in the pH range between 2 and
 6. Lacticin 10790 was destroyed by digestion with proteases and exhibited
 a bactericidal mode of action. An amino acid compn. anal. of purified
 lacticin 10790 revealed a high concn. of hydrophobic amino acids. The N
 terminus of the bacteriocin was found to be blocked, upon anal.
 by Edman degrdn. The results suggest that lacticin 10790 is a class I
 bacteriocin.
- RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT